

TRANSMITTAL OF FORMAL DRAWINGS

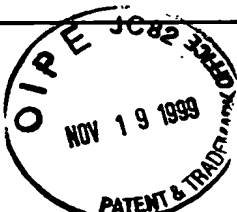
Docket No.
198-1226

2786

In Re Application Of: Viswanathan Babu et al.

Serial No.	Filing Date	Batch No.	Examiner	Art Unit
09/432,485	November 1, 1999			

Invention: PAINT SPRAY PARTICLE TRAJECTORY ANALYSIS METHOD AND SYSTEM



Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

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Transmitted herewith are:

8 & 2 copies sheets of formal drawing(s) for this application.

Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawing.

Signature

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Dated: November 15, 1999

I certify that this document and attached formal drawings are being deposited on Nov. 15, 1999 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

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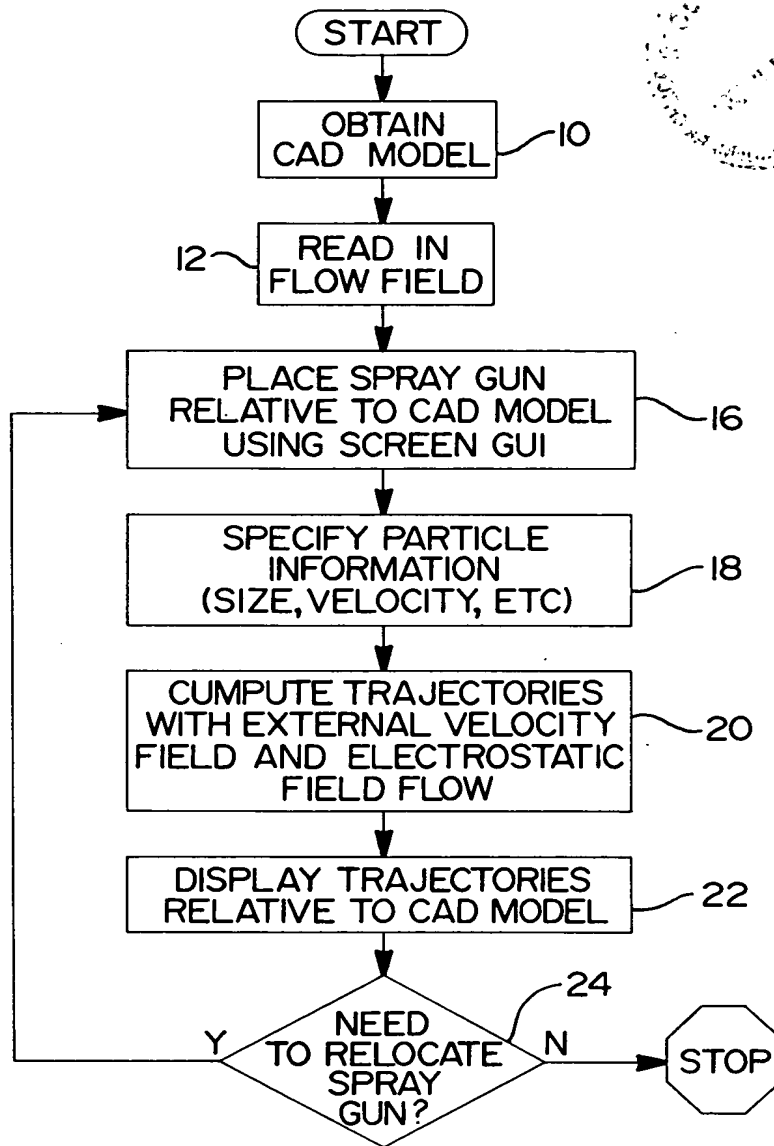


FIG 1

FIG 2

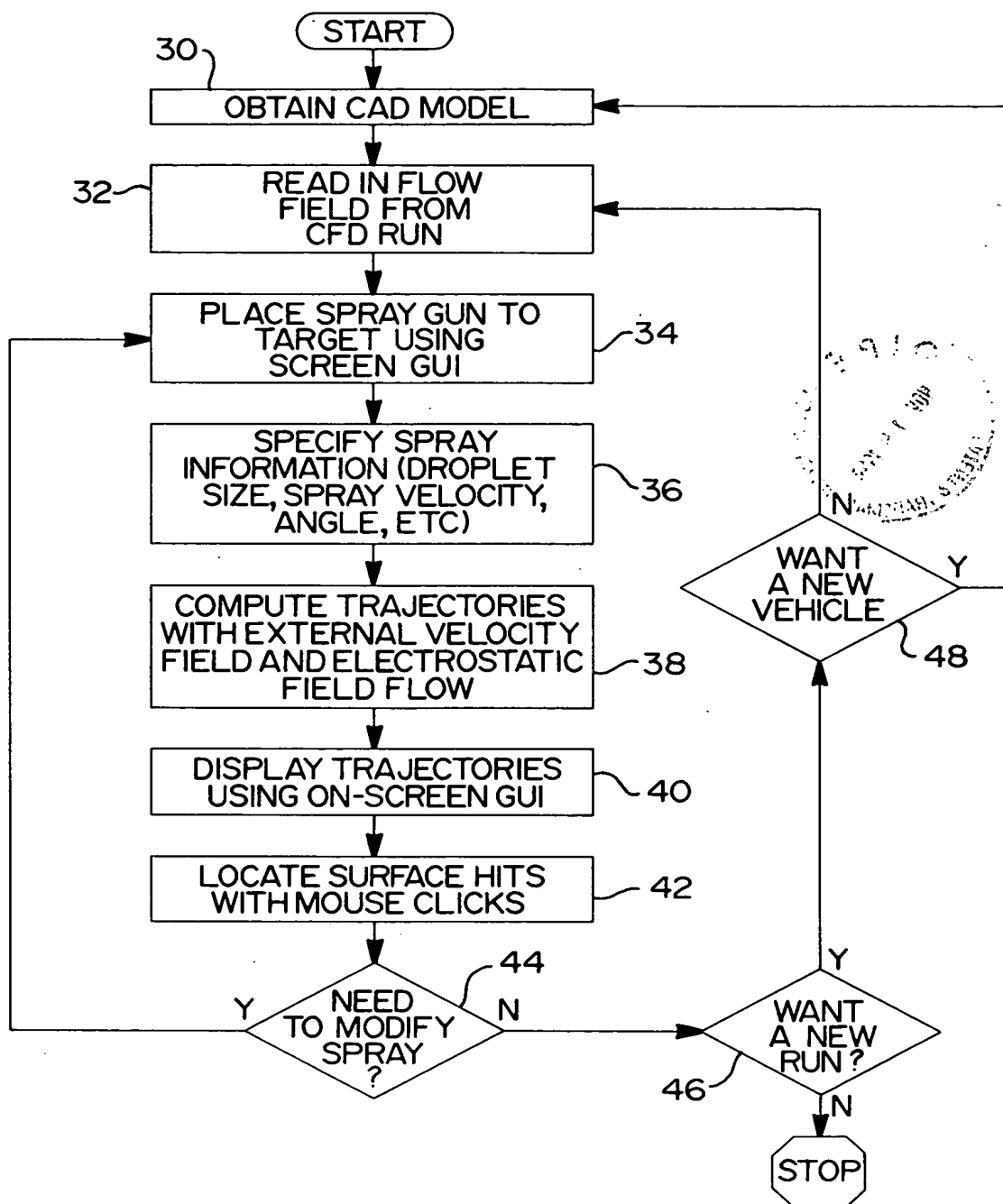


FIG 3

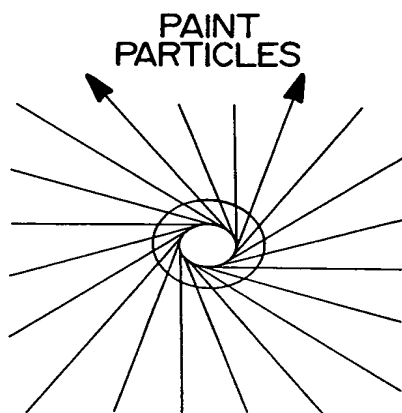
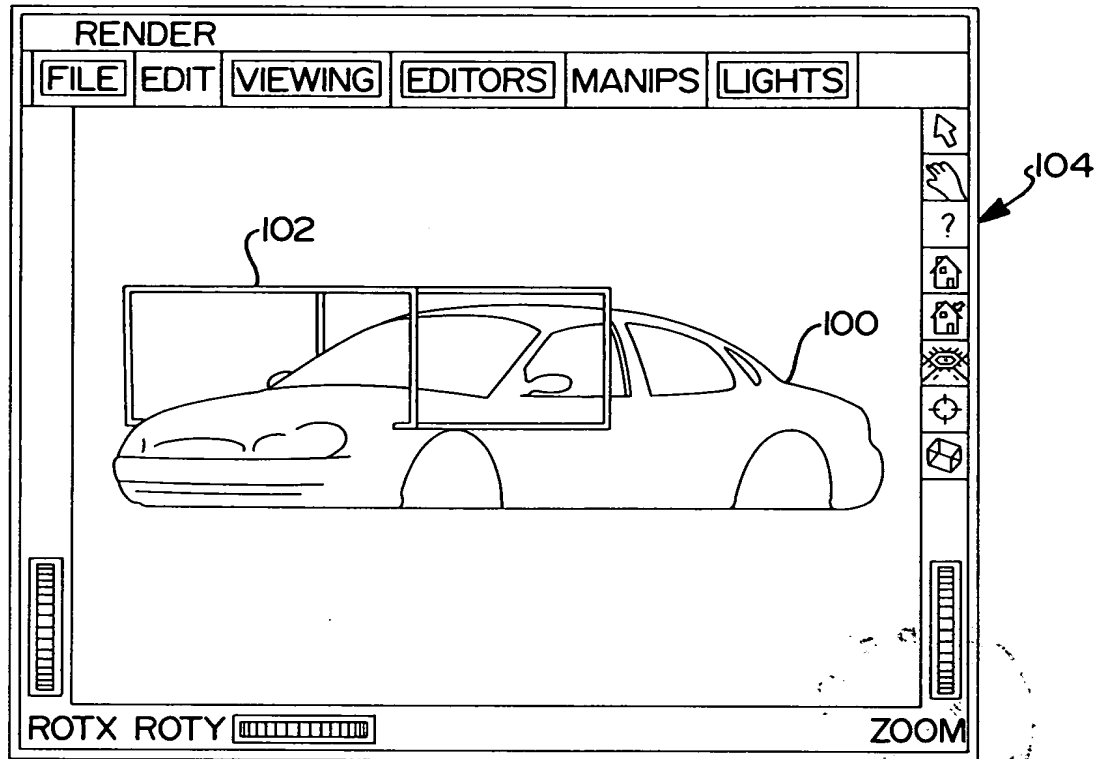


FIG 8A

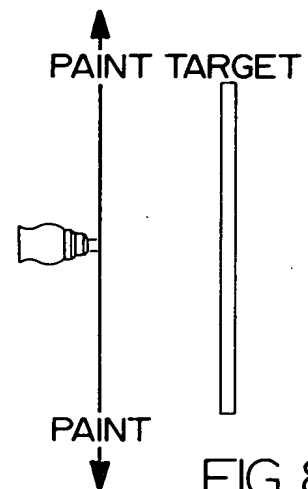


FIG 8B

FIG 4

READ MME RESULTS		HELP	
FILENAME		SHOW GRID <input type="checkbox"/>	
Timestep $1.600e+04$		MIN X MIN Y MIN Z	
4000 1600		9472 6648 13064	
Q		10128 6976 13472	
UNITS		9472 6648 12656	
<input checked="" type="checkbox"/> USER		MAX X MAX Y MAX Z	
<input checked="" type="checkbox"/> MKS		10128 6976 13472	
<input checked="" type="checkbox"/> DIMLESS		10128 6976 13472	
<input checked="" type="checkbox"/> LATTICE		9472 6648 12656	
CROP		SUBSAMPLING	
<input type="checkbox"/> PREVIEW		2 3 0	
TOOTHING		106 106	
<input type="checkbox"/> OFF			
PEEK		OUTPUT A	
NEXT		VELOCITY <input type="checkbox"/>	
PREV		OUTPUT B	
		NONE <input type="checkbox"/>	
		OUTPUT C	
		NONE <input type="checkbox"/>	
		OUTPUT D	
		NONE <input type="checkbox"/>	
		OUTPUT E	
		NONE <input type="checkbox"/>	
		OUTPUT F	
		NONE <input type="checkbox"/>	
		OUTPUT G	
		NONE <input type="checkbox"/>	
		OUTPUT H	
		NONE <input type="checkbox"/>	
		OUTPUT I	
		NONE <input type="checkbox"/>	

FIG 5

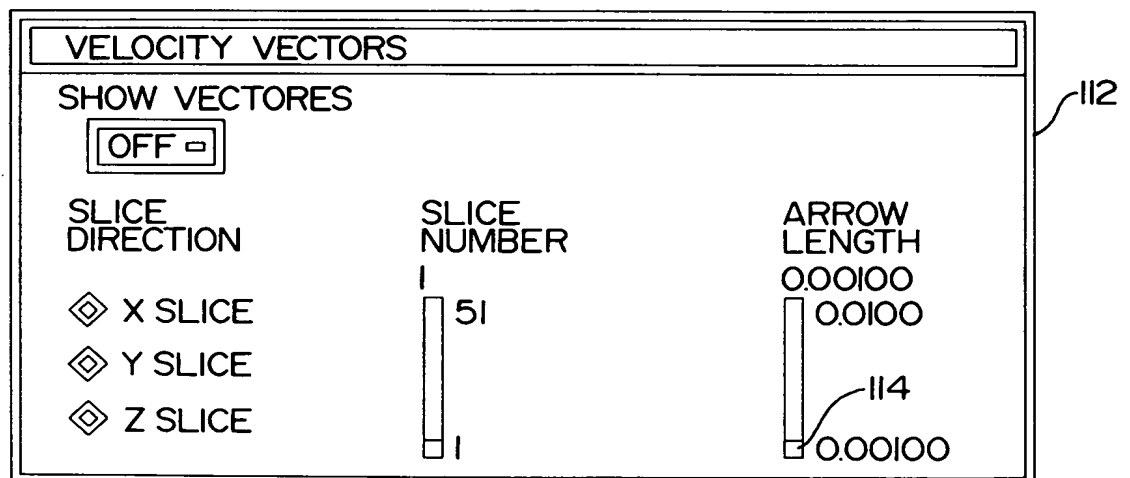
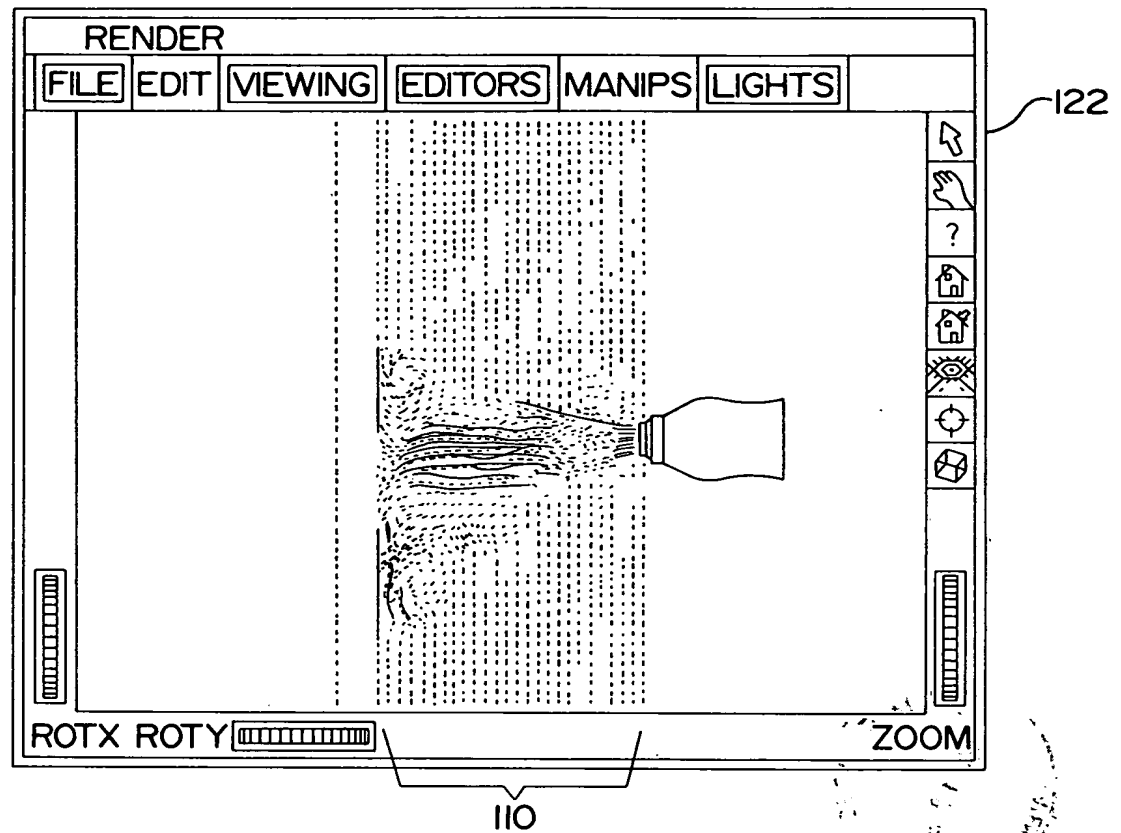


FIG 6

FIG 7

SPRAY

PARTICLE TRACK
☐ DONE
☐ START

140 TRACK DYNAMICS
148
150

TRACKS
☐ HIDE

DIAMETER

TIMESTEP

DENSITY

NUMBER OF PARTICLES

X
23.23
116
22.89 24.48

Y
16.26
118
16.07 16.86

Z
31.80
120
31.57 32.56

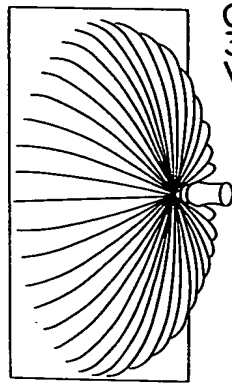
SPRAY ANGLE
200
180
134
0.00
136

BASE ANGLE
5.00
180.
-180.
132

INCLINATION ANGLE
230
180.
0.00
130

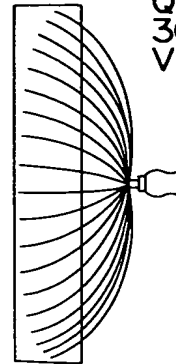
INITIAL VELOCITY
800
50.0
0.00

FIG 9A



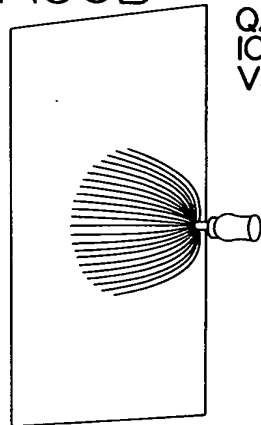
Q/M=5
30000 RPM
VS=30 M/S

FIG 9D

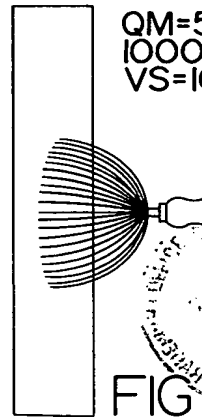


QM=5
30000 RPM
VS=10 M/S

FIG 9B

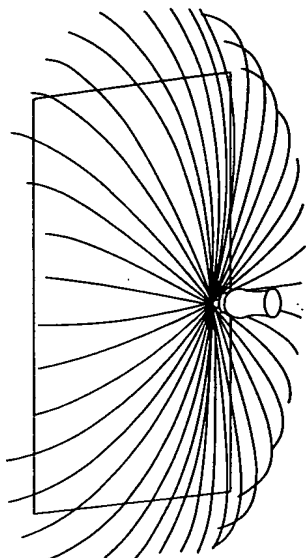


Q/M=5
10000 RPM
VS=30M/S



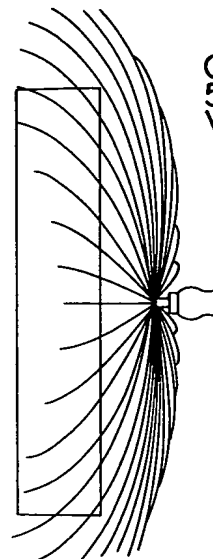
QM=5
10000 RPM
VS=10M/S

FIG 9E



Q/M=5
50000 RPM
VS=30M/S

FIG 9C



QM=5
50000 RPM
VS=10M/S

FIG 9F

FIG 10

